Simplifying Logarithms

$\log_{\textcircled{2}} 8 = \square \leftrightarrow 2^{\square} = 8$ check: $\log_2 8 = 3 \leftrightarrow 2^3 = 8$

To what power do you raise 2 to get 8?

$\log_5 25 = \square \leftrightarrow 5^{\square} = 25$

$\log_3 81 = \square \leftrightarrow 3^{\square} = 81$

$\log_4 16 = \square \leftrightarrow 4^{\square} = 16$

$\log_6 1 = \square \leftrightarrow 6^{\square} = 1$

$\log_2 \left(\frac{1}{8}\right) = \square \leftrightarrow 2^{\square} = \frac{1}{8}$

$\log 100 = \square \leftrightarrow ?^{\square} = 100$

$\log 1000 = \square$

$\log 0 = \square$

$\log(-10) = \square$